# Citizen's Advisory Committee Meeting Galveston Texas November 5, 2003



# Action Plan for Reducing, Mitigating, and Controlling Hypoxia in the Northern Gulf of Mexico



#### **HYPOXIA**

Where we are...

Where we are going...

by Larinda Tervelt GMPO







Objective 4: By the year 2015 support national efforts to reduce the 5-year running average areal extent of Gulf hypoxia to less than 1,930 square miles.



# **Background Monitoring Surveys:** Completed:

December 2002 March 2003

June 2003

Scheduled:

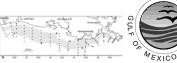
November 5 – 19, 2003

Anticipated

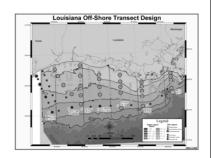
March/April 2004

June/July 2004

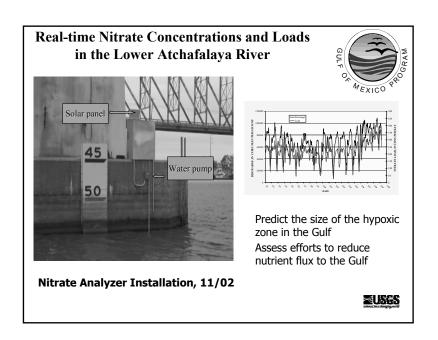
October/November 2004

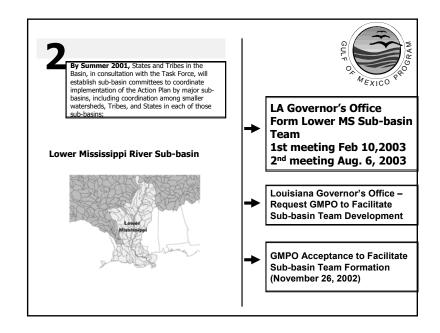


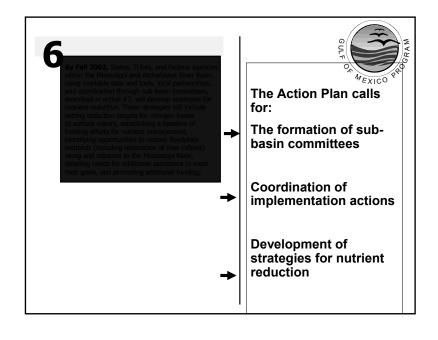
FY2003 – Collaborative (ORD-GED, OW, & GMPO) Initiation of the Gulf Hypoxia Modeling and Monitoring Framework

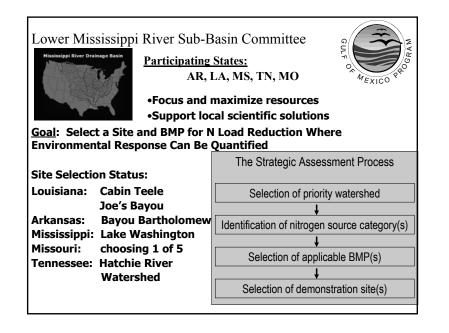








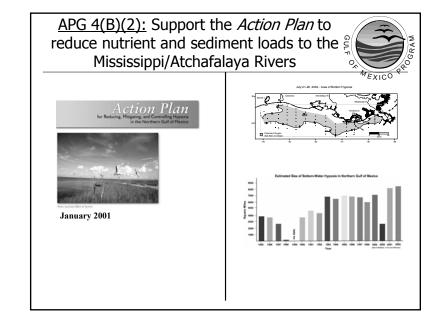


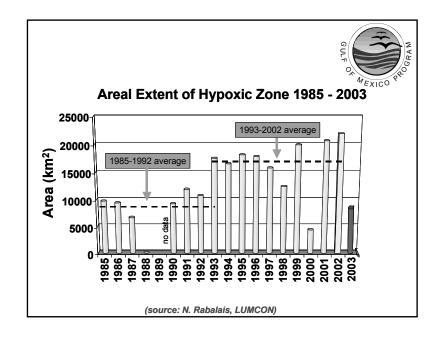


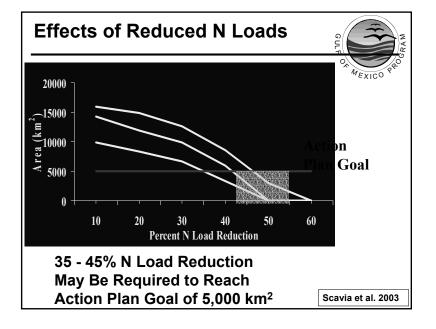
### Continuing efforts



- Work within the pilot Watershed Projects
- •Include "indicators of success"
- •Transfer successful actions to other sub-basins







# **Nutrient Farming**





## The Wetlands Initiative Workshop





Produce nitrogen farm pilot projects

Provide information to assess economic feasibility

Site location and selection

**Engineering Design and Management** 

**Ecological design and management** 

**Economics** 

# **Nutrient Farming**





- •remove excess nutrients from surface waters
- •sell or trade credits

#### **Ecological benefits**

- •Wildlife habitat
- •Open space
- •Recreational opportunities

#### **Economic opportunities**

•Alternative farm income

# Nutrient Farming (Summary)



# Viable approach would:

- •Establish several pilot projects throughout the basin
- •Vary in size, scale, and landscape position

#### Conclusion



Nitrogen farming would restore land to wetlands and then rely on the natural functions of wetlands to reduce nitrates far more economically than conventional treatment methods. Further, nitrogen farms would prosper where conventional farms falter—on flood prone bottomlands.



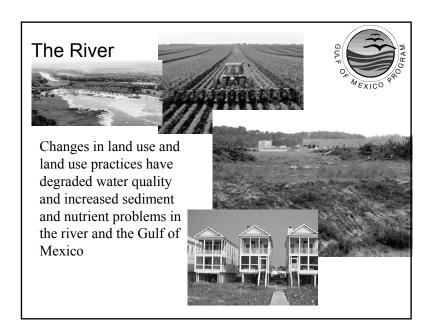
Restored wetlands will have a greater economic value when the USEPA establishes nutrient standards and the states adopt related regulations.





"Life is what happens while you're busy making other plans." John Lennon

ca. 1980



#### Plans We Can Make



Create opportunities for improved communication among the public to share information.



Communicate recommendations for action clearly to the public – encourage leadership and public support

#### The Opportunity Spectrum

- 1. Be advocates for the Gulf ecosystem and seek citizen agency and congressional support for programs that will restore and maintain the ecological health of the Gulf
- 2. Look for opportunities to make better use of electronic and print media, using some well-developed themes which reach both urban and rural audiences.
- 3. Understand the issues
- 4. Develop information
- 5. Provide information to the public, other organizations, resource managers and agencies

# Opportunities



